

REMARKSClaim Rejections - 35 U.S.C. § 102 (e)

The Examiner has rejected claims 11-25 under 35 U.S.C. § 102 (e) as being anticipated by Uchiyama (US 6,767,763).

Claim 11

Applicant respectfully disagrees with the Examiner. Applicant has amended claim 11. Support is provided in paragraph [0085] on page 20 and paragraph {0021} on page 21 of the specification.

Claim 11, as amended, of Applicant's claimed invention discloses a structure (400) including: an anisotropic conductive film (210), the anisotropic conductive film including multiple layers (not shown), the anisotropic conductive film including a front surface and a rear surface, the anisotropic conductive film including particles (215A, 215B) of a consistent shape, the particles including a non-conductive bulk material, a conductive intermediate layer, and a non-conductive outer layer wherein the non-conductive outer layer may be moved aside by pressure; a first raised contact (138) located over the front surface, the first raised contact forming part of a first wafer (1100); and a second raised contact (338) located over the rear surface, the second raised contact forming part of a second wafer (1300), wherein the second raised contact faces the first raised contact. See Figure 1K.

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In contrast, the Uchiyama reference cited by the Examiner teaches a liquid crystal device (1) that includes a pair of substrates (3a, 3b) whose peripheral portions are bonded by a sealant (2) and where bumps (11a) on a liquid crystal driving IC (11) and terminals (14) on a protruding portion of the substrate (3b) are electrically connected by an anisotropic conductive film (12) that contains conductive particles (12b) scattered in a bonding resin (12a). See Figures 1, 2, and 4 (b).

However, Uchiyama fails to teach the anisotropic conductive film includes multiple layers; the anisotropic conductive film includes particles of a consistent shape; and the particles include a non-conductive bulk material, a conductive intermediate layer, and a non-conductive outer layer that may be moved aside by pressure.

Thus, the reference of Uchiyama cited by the Examiner does not teach each and every element of claim 11 of Applicant's claimed invention and so Uchiyama does not anticipate claim 11 of Applicant's claimed invention.

In view of the foregoing, Applicant respectfully requests the Examiner to withdraw the rejections to claim 11 of Applicant's claimed invention under 35 U.S.C. §102 (e).

Claims 12-15

Applicant respectfully disagrees with the Examiner.

Applicant has amended claim 12. Support is provided in paragraph [0080] on page 19 of the specification.

Applicant has amended claim 13. Support is provided in paragraph [0081] on page 19 of the specification.

Applicant has amended claim 14. Support is provided in paragraph [0083] on page 19 of the specification.

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Claims 12-15 are dependent on claim 11 of Applicant's claimed invention.

However, the reference of Uchiyama cited by the Examiner does not teach each and every element of claim 11 of Applicant's claimed invention and so Uchiyama does not anticipate claim 11 of Applicant's claimed invention. See earlier section.

Thus, the reference of Uchiyama cited by the Examiner also does not teach each and every element of claims 12-15 of Applicant's claimed invention and so Uchiyama also does not anticipate claims 12-15 of Applicant's claimed invention.

In view of the foregoing, Applicant respectfully requests the Examiner to withdraw the rejections to claims 12-15 of Applicant's claimed invention under 35 U.S.C. §102 (e).

Claims 16-25

Applicant respectfully disagrees with the Examiner.

Applicant has amended claim 16. Support is provided in paragraph [0085] on pages 19-20 and paragraph [0080] on page 19 of the specification.

Claim 16, as amended, of Applicant's claimed invention discloses a stacked-substrate structure (400) including: a first substrate (102) with a first surface, the first surface having a first raised contact (138); an anisotropic conductive adhesive located over the first surface, the anisotropic conductive adhesive including a binder (210) and a filler (215A, 215B), the filler including particles with a consistent shape; and a second substrate (302) with a second surface, the second surface having a second raised contact (338), the second surface located over the anisotropic conductive adhesive, wherein the second raised contact faces the first raised contact, wherein some of the particles (215B) are trapped between the second raised contact

and the first raised contact to form a continuous and conductive path, and wherein the trapped particles may be locked in a compressed state. See Figure 1K.

In contrast, the Uchiyama reference cited by the Examiner teaches a liquid crystal device (1) that includes a pair of substrates (3a, 3b) whose peripheral portions are bonded by a sealant (2) and where bumps (11a) on a liquid crystal driving IC (11) and terminals (14) on a protruding portion of the substrate (3b) are electrically connected by an anisotropic conductive film (12) that contains conductive particles (12b) scattered in a bonding resin (12a). See Figures 1, 2, and 4 (b).

However, Uchiyama fails to teach the anisotropic conductive film includes a binder and a filler; the filler includes particles with a consistent shape; and the particles that are trapped may be locked in a compressed state.

Thus, the reference of Uchiyama cited by the Examiner does not teach each and every element of claim 16 of Applicant's claimed invention and so Uchiyama does not anticipate claim 16 of Applicant's claimed invention.

Claims 17-25 are dependent on claim 16 of Applicant's claimed invention.

However, the reference of Uchiyama cited by the Examiner does not teach each and every element of claim 16 of Applicant's claimed invention and so Uchiyama does not anticipate claim 16 of Applicant's claimed invention. See earlier section.

Thus, the reference of Uchiyama cited by the Examiner also does not teach each and every element of claims 17-25 of Applicant's claimed invention and so Uchiyama also does not anticipate claims 17-25 of Applicant's claimed invention.

In view of the foregoing, Applicant respectfully requests the Examiner to withdraw the rejections to claims 16-25 of Applicant's claimed invention under 35 U.S.C. §102 (e).

Conclusion

Applicant believes that all claims pending, including amended claims 11-14 and 16, are now in condition for allowance so such action is earnestly solicited at the earliest possible date.

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